

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-29 (Canceled)

Claim 30 (New): A replica disk made from a replication process which includes creation of a master disk, creation of a first-generation stamper from the master disk and creation of a second-generation stamper from the first-generation stamper, the replica disk comprising:

a replica substrate having a first major surface and a second major surface, the first major surface including a surface relief pattern defined by adjacent lands and grooves, the surface relief pattern having a track pitch less than 425 nanometers, wherein the grooves extend down into the replica substrate, the grooves including groove bottoms and the lands including land tops, wherein the land tops are wider than the groove bottoms.

Claim 31 (New): The replica disk of claim 30, wherein the land tops are generally flat and coplanar.

Claim 32 (New): The replica disk of claim 30, wherein the grooves define a groove depth which is greater than 50 nanometers.

Claim 33 (New): The replica disk of claim 30, wherein widths of the land tops are greater than 100 nanometers.

Claim 34 (New): The replica disk of claim 30, wherein widths of the land tops are greater than 250 nanometers.

Claim 35 (New): The replica disk of claim 30, wherein the replica disk is created from the second-generation stamper.

Claim 36 (New): A replica disk made from a replication process which includes creation of a master disk, creation of a first-generation stamper from the master disk and creation of a second-generation stamper from the first-generation stamper, the replica disk comprising:

a replica substrate having a first major surface and a second major surface, the first major surface including a surface relief pattern defined by adjacent lands and grooves, the surface relief pattern having a track pitch less than 425 nanometers, wherein the grooves extend down into the replica substrate, the grooves including groove bottoms and the lands including land tops, wherein a width of the land tops is greater than 25 percent of the track pitch.

Claim 37 (New): The replica disk of claim 36, wherein the land tops are flat and coplanar and wherein the land tops include sharp corners.

Claim 38 (New): The replica disk of claim 36, wherein the grooves define a groove depth between 20 and 120 nanometers.

Claim 39 (New): The replica disk of claim 36, wherein the width of the land tops is greater than 35 percent of the track pitch.

Claim 40 (New): The replica disk of claim 39, wherein the width of the land tops is greater than 50 percent of the track pitch.

Claim 41 (New): The replica disk of claim 36, wherein the replica disk is created from the second-generation stamper.

Claim 42 (New): A replica disk made from a replication process which includes creation of a laser etched master disk, creation of a first-generation stamper from the laser etched master disk

and creation of a second-generation stamper from the first-generation stamper, the replica disk comprising:

a replica substrate having a first major surface and a second major surface, the first major surface including a surface relief pattern defined by adjacent lands and grooves, the surface relief pattern defining a track pitch less than 2 multiplied by a laser spot size associated with a laser used to perform laser etching of the laser etched master disk, wherein the track pitch is less than 700 nanometers.

Claim 43 (New): The replica disk of claim 42, wherein the track pitch of the surface relief pattern is less than 425 nanometers and a width of tops of the lands is greater than 25 percent of the track pitch.

Claim 44 (New): The replica disk of claim 43, wherein the width of the tops of the lands is greater than 35 percent of the track pitch.

Claim 45 (New): The replica disk of claim 42, wherein tops of the lands are flat and coplanar and include sharp corners.

Claim 46 (New): The replica disk of claim 42, wherein the track pitch is less than 1.6 multiplied by the laser spot size.

Claim 47 (New): The replica disk of claim 42, wherein the replica disk is created from the second-generation stamper.